

**PATENT COOPERATION TREATY**  
**PCT**

**INTERNATIONAL PRELIMINARY EXAMINATION REPORT**

(PCT Article 36 and Rule 70)

REC'D 09 DEC 2003

WIPO PCT

Applicant's or agent's file reference 1008.P003PCT	<b>FOR FURTHER ACTION</b> See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416).	
International Application No.  <b>PCT/SG03/00015</b>	International Filing Date (day/month/year) 24 January 2003	Priority Date (day/month/year)  1 April 2002
International Patent Classification (IPC) or national classification and IPC  Int. Cl. <sup>7</sup> B05C 17/02, 17/025, 17/035		
Applicant  ER, Poh Leong		

1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.

2. This REPORT consists of a total of 3 sheets, including this cover sheet.

☒ This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).

These annexes consist of a total of 4 sheet(s).

3. This report contains indications relating to the following items:

- I ☒ Basis of the report
- II ☐ Priority
- III ☐ Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- IV ☐ Lack of unity of invention
- V ☒ Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- VI ☐ Certain documents cited
- VII ☐ Certain defects in the international application
- VIII ☐ Certain observations on the international application

Date of submission of the demand 3 September 2003	Date of completion of the report 20 November 2003
Name and mailing address of the IPEA/AU  AUSTRALIAN PATENT OFFICE PO BOX 200, WODEN ACT 2606, AUSTRALIA E-mail address: pct@ipaustalia.gov.au Facsimile No. (02) 6285 3929	Authorized Officer   <b>THARU FERNANDO</b> Telephone No. (02) 6283 2486

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**I. Basis of the report****1. With regard to the elements of the international application:\***

- ☐ the international application as originally filed.
- ☒ the description, pages 1-7, as originally filed,  
pages , filed with the demand,  
pages , received on with the letter of
- ☒ the claims, pages , as originally filed,  
pages , as amended (together with any statement) under Article 19,  
pages , filed with the demand,  
pages 8-11, received on 14 November 2003 with the letter of 14 November 2003
- ☒ the drawings, pages , as originally filed,  
pages , filed with the demand,  
pages , received on with the letter of
- ☐ the sequence listing part of the description:  
pages , as originally filed  
pages , filed with the demand  
pages , received on with the letter of

**2. With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.**

These elements were available or furnished to this Authority in the following language which is:

- ☐ the language of a translation furnished for the purposes of international search (under Rule 23.1(b)).
- ☐ the language of publication of the international application (under Rule 48.3(b)).
- ☐ the language of the translation furnished for the purposes of international preliminary examination (under Rules 55.2 and/or 55.3).

**3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:**

- ☐ contained in the international application in written form.
- ☐ filed together with the international application in computer readable form.
- ☐ furnished subsequently to this Authority in written form.
- ☐ furnished subsequently to this Authority in computer readable form.
- ☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
- ☐ The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished

**4. ☐ The amendments have resulted in the cancellation of:**

- ☐ the description, pages
- ☐ the claims, Nos.
- ☐ the drawings, sheets/fig.

**5. ☐ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).\*\***

\* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17).

\*\* Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report

## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/SG03/00015

**V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement****1. Statement**

Novelty (N)	Claims 1-22	YES
	Claims	NO
Inventive step (IS)	Claims 1-22	YES
	Claims	NO
Industrial applicability (IA)	Claims 1-22	YES
	Claims	NO

**2. Citations and explanations (Rule 70.7)**

NL 8301130  
CA 2101124  
US 5412832  
GB 2143158

The present invention is a frusto-conically shaped paint applicator with a reservoir for paint that allows painting of corners and edges. The citations listed above appear to be the closest prior art, but this invention differs from them by achieving its objective in painting corners and edges without complicated internal mechanisms such as that of C3, having its own paint reservoir unlike C1 and C2, and having a reservoir that is internal to the applicator unlike C4.

Therefore the current invention appears novel and inventive over the prior art.

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What is claimed is:

1. A paint roller comprising:  
a frustoconically-shaped applicator having two opposite ends, a coupling portion disposed at one of said opposite ends, and an external surface between said two opposite ends, said frustoconically-shaped applicator being rotatable at said coupling portion about a rotary axis;  
said frustoconically-shaped applicator comprises a chamber for storing paint;  
and  
at least one paint-absorbable member mounted to said external surface.
2. The paint roller as claimed in Claim 1, and further comprising a movement coupler detachably coupled to said coupling portion.
3. The paint roller as claimed in Claim 2, wherein said movement coupler comprises a rotary connecting portion adapted to coact with said coupling portion for rotary movement about said rotary axis.
4. The paint roller as claimed in Claim 2, wherein said movement coupler comprises a pivotal connecting portion adapted to coact with a pivot mount of a handle for pivotal movement of said frustoconically-shaped applicator.
5. The paint roller as claimed in Claim 1, wherein said frustoconically-shaped applicator further comprises at least one closable inlet leading into said chamber.
6. The paint roller as claimed in Claim 5, wherein said at least one closable inlet is disposed at one of said opposite ends.
7. The paint roller as claimed in Claim 1, wherein said chamber comprises at least one paint-permeable portion coupled to said at least one paint-absorbable member.

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8. The paint roller as claimed in Claim 1, wherein one of said opposite ends is a coupling end, said coupling portion being formed at said coupling end.
9. The paint roller as claimed in Claim 8, wherein said coupling end has a planar cross-section smaller than a corresponding planar cross-section of the other opposite end.
10. The paint roller as claimed in Claim 9, wherein said coupling portion is disposed centrally relative to said planar cross-section of said coupling end.
11. The paint roller as claimed in Claim 1, and further comprising at least one abutment member mountable to one of said opposite ends.

12. A paint roller comprising:  
a frustoconically-shaped applicator having two opposite ends, a coupling portion disposed at one of said opposite ends, and an external surface between said two opposite ends, said frustoconically-shaped applicator being rotatable at said coupling portion about a rotary axis;  
at least one paint-absorbable member mounted to said external surface;  
a handle having a pivot mount;  
and  
a movement coupler detachably coupled to said coupling portion and to said pivot mount.
13. The paint roller as claimed in Claim 12, wherein said movement coupler comprises a rotary connecting portion adapted to coact with said coupling portion for rotary movement of said frustoconically-shaped applicator about said rotary axis.
14. The paint roller as claimed in Claim 12, wherein said movement coupler comprises a pivotal connecting portion adapted to coact with said pivot mount for pivotal movement of said frustoconically-shaped applicator.
15. The paint roller as claimed in Claim 12, wherein said frustoconically-shaped applicator comprises a chamber for storing paint.
16. The paint roller as claimed in Claim 15, wherein said frustoconically-shaped applicator further comprises at least one closable inlet leading into said chamber.
17. The paint roller as claimed in Claim 16, wherein said at least one closable inlet is disposed at one of said opposite ends.

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18. The paint roller as claimed in Claim 15, wherein said chamber comprises at least one paint-permeable portion coupled to said at least one paint-absorbable member.
19. The paint roller as claimed in Claim 12, wherein one of said opposite ends is a coupling end, said coupling portion being formed at said coupling end.
20. The paint roller as claimed in Claim 19, wherein said coupling end has a planar cross-section smaller than a corresponding planar cross-section of the other opposite end.
21. The paint roller as claimed in Claim 20, wherein said coupling portion is disposed centrally relative to said planar cross-section of said coupling end.
22. The paint roller as claimed in Claim 12, and further comprising at least one abutment member mountable to one of said opposite ends.

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